

(19) World Intellectual Property
Organization
International Bureau(43) International Publication Date
13 May 2004 (13.05.2004)

PCT

(10) International Publication Number
WO 2004/039799 A1(51) International Patent Classification⁷: C07D 409/12,
411/12, 417/12, 333/36, A01N 43/56, 43/36, 43/78, 43/40,
43/32(CH). TOBLER, Hans [CH/CH]; Schwarzwaldallee
215, CH-4058 Basel (CH). WALTER, Harald [DE/CH];
Schwarzwaldallee 215, CH-4058 Basel (CH).(21) International Application Number:
PCT/EP2003/011805(74) Agents: OSBORN, Martin, Keith et al.; Intellectual
Property Department, Syngenta Limited, P.O. Box 3538,
Jealott's Hill Research Centre, Bracknell RG42 6YA (GB).

(22) International Filing Date: 24 October 2003 (24.10.2003)

(25) Filing Language: English

(26) Publication Language: English

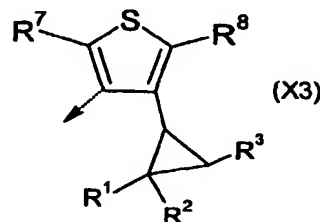
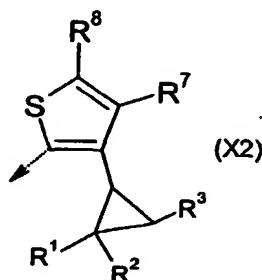
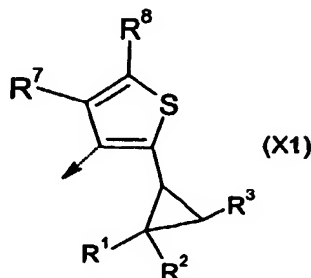
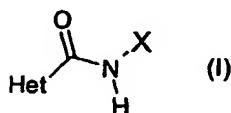
(30) Priority Data:
0225554.5 1 November 2002 (01.11.2002) GB(71) Applicant (for all designated States except US): SYN-
GENTA PARTICIPATIONS AG [CH/CH]; Intellectual
Property Department, Schwarzwaldallee 215, CH-4058
Basel (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): EHRENFREUND,
Josef [AT/CH]; Schwarzwaldallee 215, CH-4058 Basel(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: CYCLOPROPYL-THIENYL-CARBOXAMIDE AS FUNGICIDES



(57) **Abstract:** A fungicidally active compound of formula (I): where X is (X1), (X2) or (X3); Het is a 5- or 6-membered heterocyclic ring containing one to three heteroatoms, each independently selected from oxygen, nitrogen and sulphur, provided that the ring is not 1,2,3-triazole, the ring being substituted by groups R⁴, R⁵ and R⁶; R¹ and R² are each, independently, hydrogen, halo or methyl; R³ is optionally substituted C₂₋₁₂ alkyl, optionally substituted C₂₋₁₂ alkenyl, optionally substituted C₂₋₁₂ alkynyl, optionally substituted C₃₋₁₂ cycloalkyl, optionally substituted phenyl or optionally substituted heterocyclyl; R⁴, R⁵ and R⁶ are each, independently, selected from hydrogen, halo, cyano, nitro, C₁₋₄ alkyl, C₁₋₄ haloalkyl, C₁₋₄ alkoxy(C₁₋₄)alkylene and C₁₋₄ haloalkoxy(C₁₋₄)alkylene, provided that at least one of R⁴, R⁵ and R⁶ is not hydrogen; and R⁷ and R⁸ are each, independently, hydrogen, halogen, C₁₋₄ alkyl or Clue haloalkyl; the invention also relates to the preparation of these compounds, to novel intermediates used in the preparation of these compounds, to the preparation of intermediates, to agrochemical compositions which comprise at least one of the novel compounds as active ingredient and to the use of the active ingredients or compositions in agriculture or horticulture for controlling or preventing infestation of plants by phytopathogenic microorganisms, preferably fungi.